OIPE		IN THE UNITED STATES PATENT AND TRADEMARK OFFICE			
1 9 2005	Applicant:	John Joseph Mazzitelli	)	Docket No.:	10015525-1
E 102	SerialNo.:	09/964,036	)	Examiner:	Lin, Kelvin Y
TRADEMARK	Filing Date:	September 26, 2001	) }	Art Unit:	2142
	Entitled:	State Data Management Method and System	)	·	

## DECLARATION OF PEGGY T. OYAMA UNDER 37 C.F.R. SECTION 1.131

Mail Stop: Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

I am a Legal Administrator in the Legal-Intellectual Property department of Hewlett-Packard Company. I enclose hereto as Exhibit A a true copy of an invention disclosure form, with dates and portions redacted as noted, which was received from the inventor of the above-referenced patent application, John Joseph Mazzitelli, on a date prior to August 28, 2001, in the ordinary course of business as part of Hewlett-Packard Company's invention disclosure program. In accordance with Hewlett-Packard Company's invention disclosure program at that time, upon receipt of an invention disclosure document from an inventor, the invention disclosure document is dated with the date of receipt by the Legal Intellectual Property department of Hewlett-Packard Company and assigned a docket number.

## CERTIFICATE OF MAILING/TRANSMISSION (37 C.F.R. 1.8(a))

I hereby certify that, on the date shown below, this correspondence is being:

MAILING

deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: MAIL STOP:
Amendment, Commissioner for Patents, P.O.
Box 1450, Alexandria, VA 22313-1450.

Date: 2-16-05

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e Mark Office.

Signature

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DOCKET NO.: 1001552 PATENT

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

## **SIGNATURE**

Peggy T. Oyama

Signature \_\_\_\_

United States of America

Residence:

Citizenship:

Fort Collins, Colorado

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INVENTION DISCLOSURE		PAGE ONE OF	
PDNO 0015525 DATE RCVD	Redacted	ATTORNEY /	1 - 4
COMPANY CON	FIDENTIAL and may not	be disclosed to others	without prior
support this disclosure to the HP Legal Department as soon as possi-	ible. No patent protection i	s possible until a paten	application is
authorized, prepared, and submitted to the Government.  Descriptive Title of Invention: HTTP Cookie Proxy			
Name of Project: Universal Session Manager	·		A CONTRACTOR OF THE PARTY OF TH
Product Name or Number: Total-e-Mobile		<u> </u>	<u>V</u>
Was a description of the invention published, or are you planning to publish? If so,	the date(s) and publication	(s):	
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Was a product including the invention announced, offered for sale, sold, or is such	activity proposed? If so, the	e date(s) and location(s	):
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Was the invention disclosed to anyone outside of HP, or will such disclosure occur	? If so, the date(s) and nar	ne(s):	
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if any of the above situations will occur within 3 months, call your IP attorney of	r the Legal Department now at 1-5	898-4919 or 970-898-4919.	
Was the invention described in a lab book or other record? If so, please identify (la	20 000k #, 610.)		
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Was the invention built or tested? If so, the date:			
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Was this invention made under a government contract? If so, the agency and con	ntract number:		
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Description of Invention: Please preserve all records of the invention and attack	ch additional pages for the f	ollowing. Each addition	aal page should
be signed and dated by the inventor(s) and witness(e  A. Description of the construction and operation of the invention (include appro			
graphs: flowcharts: computer listings; test results; etc.)	•		
R Advantages of the invention over what has been done before.			
C. Problems solved by the invention.  D. Prior solutions and their disadvantages (if available, attach copies of productions).	t literature, technical article	s, patents, etc.).	
D. Prior solutions and their disadvantages (in available, disadvented).  Signature of Inventor(s): Pursuant to my (our) employment agreement, I (we)	submit this disclosure on th	is date: [ Redact	ed }
	Redact		HP Bluestone
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Entity & Lab Name

Employee No.

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INVENTION DISCLOSURE	COMPANY CONFIDENTIAL		OF _6
enature of Witness(es): (Please try to obtain the signal	ture of the person(s) to whom invention was first d	isclosed.)	,
e invention was first explained to, and underst	ood by, me (us) on this date. [	Redacted	Signature
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Description of Invention: Please preserve all records of the invention and attach additional pages for the following. Each additional page should be signed and dated by the inventor(s) and witness(es).

A. Description of the construction and operation of the invention (include appropriate schematic, block, & timing diagrams; drawings; samples; graphs; flowcharts; computer listings; test results; etc.)

The HTTP Cookie Proxy is a component that is housed inside of the Universal Session Manager product which sits between a remote client device and a web server. The Universal Session Manager and its internal HTTP Cookie Proxy component is currently implemented as a customized listener that plugs into the HP Bluestone Universal Listener Framework (ULF). The algorithm is as follows:

- 1) Accept HTTP requests from the client device (e.g., a WAP phone)
- 2) Extracts a unique client identifier from that HTTP request that uniquely identifies the remote client.
- 3) Adds any cookies belonging to that client to the request via an HTTP cookie header.
- 4) Forwards the request (with the new HTTP cookie headers) to a web server.
- 5) When the web server returns the HTTP response, the component will parse that response and extract all HTTP set-cookie headers. If any set-cookie headers are found, those cookies are stored in a cookie storage area for later retrieval when the client submits future HTTP requests (i.e. used in step 3).
- 6) The HTTP Cookie Proxy passes the response unaltered back to the client.

Other than adding cookie headers to the forwarded HTTP request, no other modifications are made to the request and, no modifications are performed on the web server's HTTP response. By default, the cookies are stored in-process; that is to say, they are stored in the same Java Virtual Machine memory space as the HTTP Cookie Proxy. It is conceivable that you might want to store this cookie information in persistent storage (like a file system or database) for better fault tolerance. The HTTP Cookie Proxy has, therefore, been designed to allow for an implementation that does these things to plug in seamlessly.

### FIGURE A.

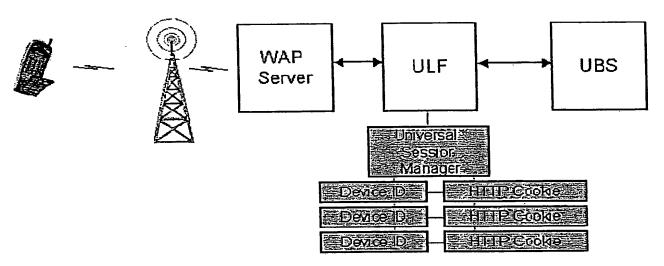


FIGURE A shows an example of how the Universal Session Manager (which houses the HTTP Cookie Proxy components) could be used to facilitate requests between a WAP phone and an HP Bluestone Universal Business Server (UBS) application.

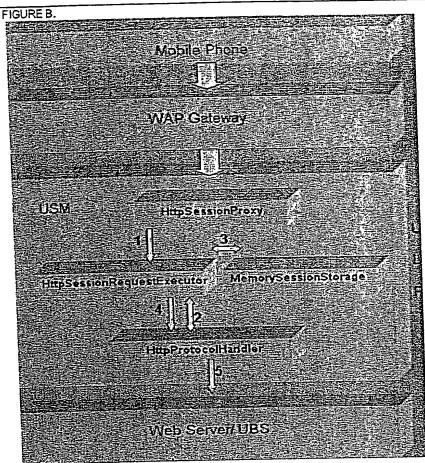


FIGURE B illustrates the Request Scenario – that is, the flow diagram that indicates how an HTTP request from a client device flows through the HTTP Cookie Proxy to its final destination, that being a web server or application server.

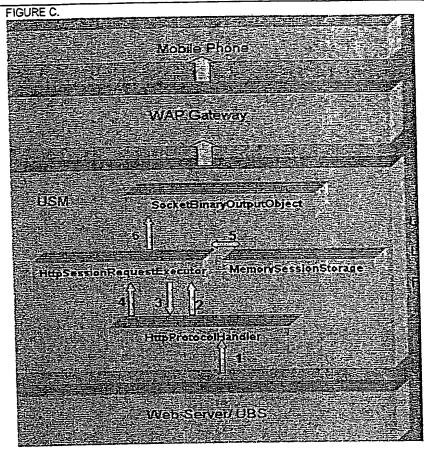


FIGURE C illustrates the Response Scenario – that is, the flow diagram that indicates how an HTTP response from a web or application server flows through the HTTP Cookie Proxy back to its requestor, that being a remote client device.

B. Advantages of the invention over what has been done before.

Without using this HTTP Cookie Proxy, some client devices cannot maintain state information and thus could not access certain web and/or application servers. The advantage to using this component is that now a device which previously had been unable to effectively use certain web and application servers can now do so without failure. Another advantage is that the HTTP Cookie Proxy can be added to an application deployment without the application developer or the client device knowing that it is involved in the interaction between client and server. Therefore, it can be added to an existing or future application deployment without requiring additional coding effort to be expended. It snaps in

re rite in Dark Ink on Front Side Only, Please seamlessly and invisibly to the client and server programs.
C. Problems solved by the invention.
Some client devices do not have the capability to store HTTP cookies. This can lead to problems since some web and Application Servers pass cookies to clients in order to maintain session and state information between requests – without the ability to store cookies on a per-client basis, state and session information cannot be maintained across multiple requests from the same client. The HTTP Cookie Proxy works around this problem by providing a mechanism by which the cookie information is no longer required to be stored in the client device.
D. Prior solutions and their disadvantages (if available, attach copies of product literature, technical articles, patents, etc.).
A prior solution would be to force the web/application server developer to encode the cookie information in the returned anchor and form action URLs. The disadvantage to this is that it requires additional work on the application developer to specifically code their applications to do this additional, specialized handling for the specific devices that cannot handle cookies. Another disadvantage is that the URLs themselves may grow too long in length, depending on how the cookie information is encoded on the URL. Some devices may not or can not display or accept URL strings longer than a certain length. If that length is exceeded, the client will again be rendered useless with respect to its ability to interact with the web or application server.